PROJECT TITLE : BIOTECHNOLOGY

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Strip-Extract Denitration

During a fermentation test with Candida utilis 707 in the pilot plant where a normal strip extract was used, the nitrate assimilation was found to be incomplete. However, when recycled extract was used, the nitrate assimilation was 100%.

Recycled extract was then used in a fermentation test performed in the laboratory. The test conditions were the same as those in the pilot plant. This recycled extract contained 500 ppm $N\text{-}NO_3$ + $N\text{-}NH_4$ before fermentation. Here again, the nitrate assimilation was total.

However, when a recycled extract containing 1200 ppm $N\text{-}NO_3$ + $N\text{-}NH_4$ before fermentation was used, the nitrate assimilation was only about 50% (1).

Further tests will be performed in order to discover the reasons for this phenomenon.

(1) Notebook, Berney-J. No 81 10 01

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